

AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions of listing of claims, and listing of claims in the application.

1-9 (Cancelled)

10. (Currently amended) A method for breeding and selecting a potato comprising

- (a) crossing a first parent potato with plant having at least one *amf*-allele with a second parent potato without plant lacking an *amf*-allele to produce progeny;
- (b) and selecting and testing said progeny by testing said progeny for the presence of at least one *amf*-allele and testing said progeny for protein content; and
- (c) selecting progeny with having at least one *amf*-allele with a protein content higher than detected in said first parent or said second parent.

11. (Currently amended) A method-The method according to claim 10 further comprising testing for protein content by determining protein content of tubers or root caps of said progeny.

12. (Currently amended) A method-The method according to claim 10 further comprising selecting progeny homozygous for the *amf*-gene.

13. (Canceled)

14. (Canceled)

15. (Currently amended) A method-The method according to claim 11 further comprising progeny homozygous for the *amf*-gene.

16. (Currently amended) A method for increasing protein storage in a potato comprising ~~providing a potato with an amf allele according to the method of claim 10.~~
 - (a) crossing a first parent potato plant having at least one amf-allele with a second parent potato plant lacking an amf-allele to produce progeny;
 - (b) selecting and testing said progeny for the presence of at least one amf-allele and for protein content; and
 - (c) selecting progeny having at least one amf-allele with a protein content higher than detected in said first parent or said second parent.
17. (Currently amended) ~~A method~~ The method according to claim 16, wherein said potato is homozygous for the amf-allele.
18. (Currently amended) ~~A method~~ The method according to claim 16, wherein the protein content of tubers of the selected progeny is at least 0.9% m/m.
19. (Currently amended) ~~A method~~ The method according to claim 18, wherein the protein content of tubers of the selected progeny is at least 1.2% m/m.
20. (Currently amended) ~~A method~~ The method according to claim 19, wherein the protein content of tubers of the selected progeny is at least 1.5% m/m.
21. (Currently amended) ~~A method~~ The method according to claim 16, wherein coagulating protein versus starch ratio of the selected progeny is at least 45 kg/ton.
22. (Currently amended) ~~A method~~ The method according to claim 21, wherein coagulating protein versus starch ratio of the selected progeny is at least 90 kg/ton.
23. (Previously presented) A method according to claim 16, further comprising providing said selected progeny with a gene encoding a heterologous protein.

Applicants: Heeres, et al.
Application No.: 10/537,037
Art Unit 1638
Page 4 of 10

Response to Non-Final Office Action mailed April 14, 2009

24. (Previously presented) A method according to claim 23, wherein the heterologous protein is selected from the group consisting of DHPS, PMC, vicilin, SCR1, Fcor2, TLRP, multicystatine, γ Zein, 10kDa Zein, 2S albumin, TIP13, PTGRP, PA1b, SE60 and PCP1.